

United States Government  
**Energy**

**Department of**

Oak Ridge Operations

Office

# memorandum

DATE: October 18, 2004

REPLY TO

ATTN OF: LM-122:Lin

SUBJECT:

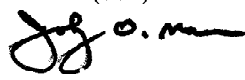
**FY 2005 ENERGY MANAGEMENT PERFORMANCE-BASED  
OBJECTIVES AND MEASURES FOR THE OAK RIDGE NATIONAL  
LABORATORY (ORNL)**

TO:  
HQ/FORS

Milton D. Johnson, Deputy Director for Operations, Office of Science, SC-1,

The attached Energy Management Performance Agreement between the Office of the Assistant Manager for Laboratories and UT-Battelle is submitted in response to your request dated August 19, 2004. It is consistent with your guidance and has been coordinated with your staff. The measures will be tracked and assessed as part of the ORNL Performance Evaluation Plan.

If there are any questions, please contact Wayne Lin at (865) 576-0639.

  
for George J. Malosh  
Assistant Manager for Laboratories

Attachment

cc w/attachment:

A. M. Edelman, SC-83, HQ/GTN  
V. P. Petrolati, EE-2L, HQ/FORS  
L. L. Radcliffe, LM-14, ORO  
C. W. Parker, ORNL

W. Lin:6-0639:PH:4-6363:10/13/04:8661.ph

Concurrence
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Date: <i>10/15/04</i>
Rtg. Symbol
LM-14
Initials/Sig.
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Rtg. Symbol
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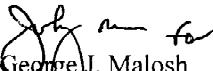
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ATTN OF: LM-122:Lin

SUBJECT: **FY 2005 ENERGY MANAGEMENT PERFORMANCE-BASED OBJECTIVES  
AND MEASURES FOR THE OAK RIDGE NATIONAL LABORATORY (ORNL)**

TO: Milton D. Johnson, Deputy Director for Operations, Office of Science, SC-1, HQ/FORS

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George J. Malosh  
Assistant Manager for Laboratories

## Attachment

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A. M. Edelman, SC-83, HQ/GTN  
V. P. Petrolati, EE-2L, HQ/FORS  
L. L. Radcliffe, LM-14, ORO  
C. W. Parker, ORNL

# OAK RIDGE NATIONAL LABORATORY

MANAGED BY UT-BATTELLE FOR THE DEPARTMENT OF ENERGY

P.O. Box 2008  
Oak Ridge, TN 37831-6326  
Phone (865) 574-8578  
Fax (865) 574-4142  
parkerw@ornl.gov

October 13, 2004

Mr. Larry Radcliffe  
Department of Energy  
Post Office Box 2008  
Oak Ridge, Tennessee 37831- 6477

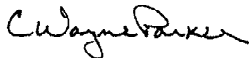
Dear Mr. Radcliffe:

**Contract DE-AC05-00OR22725; Energy Management Performance  
Measures for FY 2005 and FY 2006; Oak Ridge National Laboratory**

DOE Order 430.2A, "Departmental Energy and Utilities Management," requires that DOE field elements "negotiate performance-based objectives, measures, and annual expectations with their contractors." As you know, we recently worked together to develop six meaningful and challenging energy- and utilities-management performance measures. A copy of these measures is attached.

The six measures address keeping ORNL's energy management plan up-to-date, achieving site energy intensity reductions, performing building evaluations for potential EPA Energy Star awards, evaluating buildings for FEMP Showcase Facility recognition, updating the ORNL peak electrical load shedding plan, and investigating onsite electrical generation. As required by guidance from the Office of Science and the Federal Energy Management Program, measures for both FY 2005 and FY 2006 have been developed and are to be forwarded for Office of Science approval.

Regards,



C. Wayne Parker, PE, CEM  
UT - Battelle, LLC  
ORNL Energy Manager

Attachment

c/att: L. D. Bates  
G. J. Malosh, DOE-ORO  
J. E. Stone  
J. Wadsworth - RC  
J. G. Whedbee

**Oak Ridge National Laboratory**  
***Energy Management Performance-Based Objectives***  
***and Measures for FY 2005 and FY 2006***

In accordance with DOE Order 430.2A, "Departmental Energy and Utilities Management" and guidance from the Office of Science, this performance agreement between the ORNL Site Office and UT-Battelle (UT-B) was developed to document energy management expectations and performance measures for operations at ORNL. These measures have been developed to match specific needs of ORNL and will be tracked as part of the UT-B Performance Evaluation Plan.

The ORNL Site Office will perform a review and assessment of these measures as part of the annual performance review of UT-B and results will be available no later than March 15, 2006. The review will take into consideration results of a contractor self-assessment of these measures.

The following performance measures are included in this agreement:

**OBJECTIVE**

**The utilization and conservation of energy is effectively managed commensurate with the site mission(s) in accordance with DOE Orders and regulations.**

**MEASURE 1**

Timely updating of the ORNL Comprehensive Energy Management Program and Plan (CEMP) that includes the minimum requirements of DOE O 430.2A, which incorporates the requirements of Executive Order 13123.

**FY 2005 EXPECTATION 1**

CEMP is updated by March 31, 2005

Gradient:

Exceeds expectations	CEMP updated by February 28, 2005
Meets expectations	CEMP updated by March 31, 2005
Needs improvement	CEMP updated after March 31, 2005

**FY 2006 EXPECTATION 1**

CEMP is updated by March 31, 2006

Gradient:

Exceeds expectations	CEMP updated by February 28, 2006
Meets expectations	CEMP updated by March 31, 2006
Needs improvement	CEMP updated after March 31, 2006

MEASURE 2

Percentage of annual reduction in site energy (excluding metered process buildings) in Btus per gross square foot as compared to the previous four quarters.

FY 2005 EXPECTATION 2

Energy use in Btus per gross square foot is at least 1% less than the previous four quarters for the Buildings/Facilities category.

Gradient:

Exceeds expectations	>2.0%
Meets expectations	1.0% – 2.0%
Needs improvement	<1.0%

FY 2006 EXPECTATION 2

Energy use in Btus per gross square foot is at least 1% less than the previous four quarters for the Buildings/Facilities category.

Gradient:

Exceeds expectations	>2.0%
Meets expectations	1.0% - 2.0%
Needs improvement	<1.0%

### MEASURE 3

Number of office buildings evaluated for receipt of the EPA Energy Star building label and submitting for award of the label for qualifying buildings.

### FY 2005 EXPECTATION 3

At least five office buildings are evaluated for receipt of the EPA Energy Star building label, and, where the buildings qualify, they are submitted for award of the label.

Gradient:

Far exceeds expectations	7
Exceeds expectations	6
Meets expectations	5
Needs improvement	<5

### FY 2006 EXPECTATION 3

At least five office buildings are evaluated for receipt of the EPA Energy Star building label, and, where the buildings qualify, they are submitted for award of the label.

Gradient:

Far exceeds expectations	7
Exceeds expectations	6
Meets expectations	5
Needs improvement	<5

#### MEASURE 4

Number of buildings evaluated and submitted for FEMP Showcase Facility recognition.

#### FY 2005 EXPECTATION 4

At least one building is evaluated for recognition as a FEMP Showcase Facility and the documentation is submitted.

Gradient:

Far exceeds expectations	3
Exceeds expectations	2
Meets expectations	1
Needs improvement	<1

#### FY 2006 EXPECTATION 4

At least one building is evaluated for recognition as a FEMP Showcase Facility and the documentation is submitted.

Gradient:

Far exceeds expectations	3
Exceeds expectations	2
Meets expectations	1
Needs improvement	<1

#### MEASURE 5

Timely updating of the ORNL peak electrical load shedding plan to incorporate newly constructed facilities and expanded detail in order to minimize the effects of supply disruptions and ensure greater electrical reliability.

#### FY 2005 EXPECTATION 5

Load shedding plan is updated by July 31, 2005

##### Gradient:

Exceeds expectations	Plan updated by June 30, 2005
Meets expectations	Plan updated by July 31, 2005
Needs improvement	Plan updated after July 31, 2005

#### FY 2006 EXPECTATION 5

Load shedding plan is updated and expanded to include diagrams, tables, and greater detail by July 31, 2006

##### Gradient:

Exceeds expectations	Plan updated by June 30, 2006
Meets expectations	Plan updated by July 31, 2006
Needs improvement	Plan updated after July 31, 2006



#### MEASURE 6

Timely preparation of a study to investigate the need for and the feasibility for onsite electrical generation.

#### FY 2005 EXPECTATION 6

Onsite electrical generation study issued by August 31, 2005

##### Gradient:

Exceeds expectations	Study issued by July 31, 2005
Meets expectations	Study issued by August 31, 2005
Needs improvement	Study issued after August 31, 2005

#### FY 2006 EXPECTATION 6

Onsite electrical generation study updated by August 31, 2006 to provide the scope and approximate cost of specific, feasible projects.

##### Gradient:

Exceeds expectations	Study updated by July 31, 2006
Meets expectations	Study updated by August 31, 2006
Needs improvement	Study updated after August 31, 2006